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(54) Title: IONIC LIQUIDS FOR HETEROGENISING METALLOCENE CATALYSTS

(57) Abstract: The present invention discloses a method for preparing an heterogeniseded catalyst component comprising the steps of: a) providing a halogenated precursor component of formula (I) -X-[-CH₂]-CH₃ b) reacting the halogenated precursor with an ionic liquid precursor in a solvent to prepare an ionic liquid; IL+X c) optionally, reacting the intermediate IL+X with a salt C+A, wherein C+ is a cation that can be selected from K+, Na+, Nh4+, and A is an anion that can be selected from PF₆, SbF₆, BF₄, (CF₃-SO₂)₂N CIO₄-, CF₃SO₃, NO₃- or CF₃CO₂. d) using the ionic liquid prepared in step b) to heterogenise a metallocene component of formula (II) R" (CpR^m) (CpRⁿ) MQ₂ wherein Cp and C'p are independently selected from substituted or unsubstituted cyclopentadienyl groups M is a metal selected from Group 4 of the Periodic Table, R" is a structural bridge imparting stereorigidity between Cp and Cp' and Q is a halogen or an alkyl having from 1 to 12 carbo n atoms; e) heterogenising the ionic liquid/metal system by addition of an apolar solvent inducing the precipitation reaction; f) retrieving a metallocene catalyst component heterogenised by an ionic liquid. It also discloses an active catalyst system hetero genised by an ionic liquid and its use in the polymerisation of olefins.